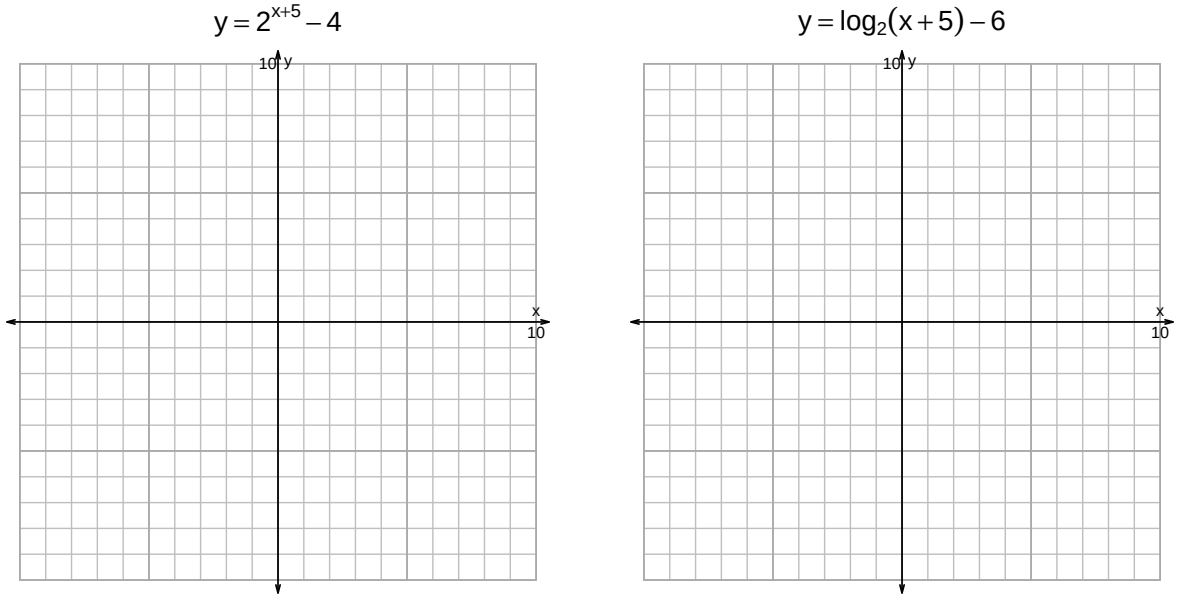
Name: Date:

s18quiz: EXP LOG (Practice v150)

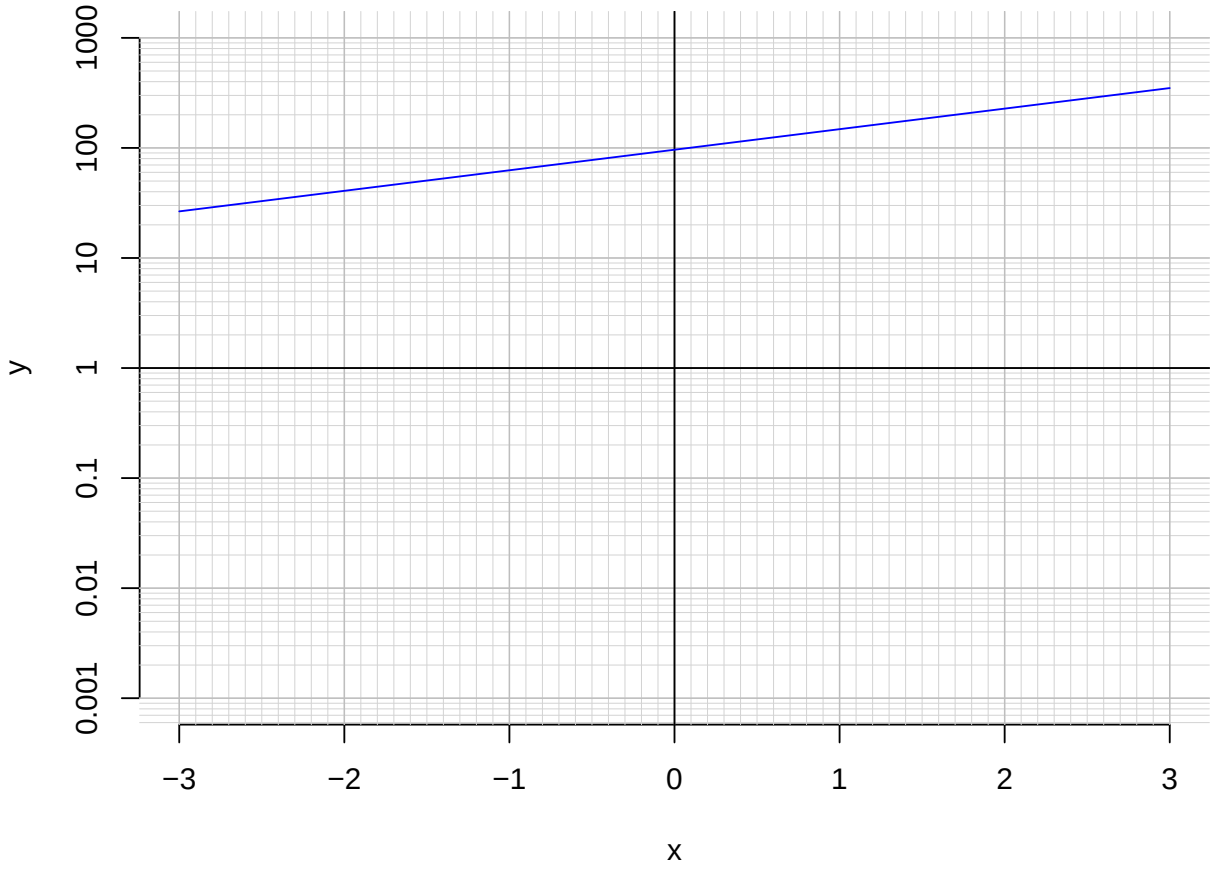
1. Graph $y = 2^{x+5} - 4$ and $y = \log_2(x+5) - 6$ on the grids below. Also, draw any asymptotes with dotted lines.



2. Write (but do not evaluate) the solution to the equation below by writing a logarithmic expression.

$$23 = \left(\frac{5}{3}\right) \cdot 10^{4t/7}$$

3. An exponential function $f(x) = 96.3 \cdot e^{0.43x}$ is graphed below on a semi-log plot.



a. Using the plot above, evaluate $f(1.7)$.

b. Express $f^{-1}(x)$, the inverse of f.

c. Using the plot above, evaluate $f^{-1}(60)$.